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**DATE:** March 29, 2006  
**FILE NO:** WEAT/0349  
**TO:** USPTO Examiner Marissa Detschel  
**FAX NO:** 571-273-8300  
**PHONE NO:**  
**COMPANY:** USPTO  
**FROM:** Randol Read/Chance Hardle  
**PAGE(S) with cover:** 14  
**ORIGINAL TO FOLLOW?** ☐ YES ☒ NO

### RESPONSE TO OFFICE ACTION DATED DECEMBER 29, 2006

**TITLE:** DOWNHOLE OPTICAL SENSOR SYSTEM WITH REFERENCE  
**U.S. SERIAL NO.:** 10/693,619  
**FILING DATE:** October 24, 2003  
**INVENTOR:** Erlend Ronnekleiv  
**EXAMINER:** Marissa Detschel  
**GROUP ART UNIT:** 2877  
**CONFIRMATION NO.:** 1501  
**CUSTOMER NO.:** 36735

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MAR 29 2006

PATENT  
Atty. Dkt. No. WEAT/0349

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Erlend Ronnekleiv

Serial No.: 10/693,619

Confirmation No.: 1501

Filed: October 24, 2003

For: DOWNHOLE OPTICAL  
SENSOR SYSTEM WITH  
REFERENCE§  
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Group Art Unit: 2877

Examiner: Marissa Detschel

Customer No. 36735

MAIL STOP AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
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Dear Sir:

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I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on <u>29 Mar</u> , 2006.	
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## RESPONSE TO OFFICE ACTION DATED DECEMBER 29, 2005

In response to the Office Action dated December 29, 2005, having a shortened statutory period for response set to expire on March 29, 2006, please enter this response and reconsider the claims pending in the application for reasons discussed below. Although Applicant believes that no additional fees are due in connection with this response, the Commissioner is hereby authorized to charge counsel's Deposit Account No. 20-0782/WEAT/0349/RWR, for any fees, including extension of time fees or excess claim fees, required to make this response timely and acceptable to the Office.

**Amendments to the Specification** begin on page 2 of this paper. **Amendments to the Claims** are reflected in the listing of claims which begins on page 3 of this paper. **Remarks** begin on page 10 of this paper.